

Air duct insert for door or window**Title:****Patent Number:** DE3683367**Publication date:** 1992-02-20**Inventor(s):****Applicant(s):****Application Number:** DE863683367/19861418**Priority Number(s):** DE863683367/19861418 DE863603686/19860206**IPC Classification:** F24F7/013 F24F13/072 F24F13/08 F24F13/14 F24F13/18
H02P5/18**Requested Patent:** DE3683367**Equivalents:****Abstract**

The ventilation insert is made from four extruded sections (3,4,5,6). The air inlet section (3) has openings (8) spaced along its length for air to enter. Similarly the outlet air section (4) is perforated (9) for air to escape. Inlet and outlet sections (3,4) stand vertically when installed. A further extrusion (14) forms a flap or damper, and is hinged onto the outlet section (4). The remaining extrusions (5,6) form the upper and lower sides of the ventilation insert. The inside of the insert is lined with sound absorbing material (17), as is the flap (15). The air path (18a, 18d) through the insert forms a convoluted duct in the sound absorbing material. The insert can also contain a motor driven fan.

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WPI Acc No: 87-258013/198737

Related WPI Acc No: 87-192869; 87-228993

XRPX Acc No: N87-193183

Air duct insert for door or window - is made of four extruded sections and lined with sound absorbing material

Patent Assignee: SIEGENIA-FRANK KG (SIEH)

Inventor: KUCHARCZYK E

Number of Countries: 012 Number of Patents: 008

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
EP--236557	A	19870916	86EP-0115982	A	19861118		198737 B
DE-3631732	A	19880324	86DE-3631732	A	19860918		198813
DE-3632349	A	19880407	86DE-3632349	A	19860924		198815
DE-3632349	C	19890503					198918
EP--236557	B	19920108					199203
DE-3683367	G	19920220					199209
ES-2029227	T3	19920801	86EP-0115982	A	19861118	F24F-013/18	199236
EP--236557	B2	19950329	86EP-0115982	A	19861118	F24F-013/18	199517 E

Priority Applications (No Type Date): 86DE-0023856 U 19860905; 86DE-3603591 A 19860206; 86DE-3603686 A 19860206; 86DE-3631732 A 19860918; 86DE-3632349 A 19860924

Cited Patents: A3...8922; DE-1271950; DE-1679539; DE--279874; DE-2815262; DE-2937782; GB-2158221; GB-2161919; No.SR.Pub; US-4356438; US-4515069; US-4560320; DE-3134163; DE-8408205; DE-8417343

Patent Details:

Patent	Kind	Lan	Pg	Filing Notes	Application	Patent
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EP--236557	A	G	38			
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Designated States (Regional): AT BE CH DE ES FR GB IT LI LU NL SE

DE-3632349	A		4			
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EP--236557	B					
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Designated States (Regional): AT BE CH DE ES FR GB IT LI LU NL SE

ES-2029227	T3			Based on		
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EP--236557

EP--236557	B2	G	46			
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Designated States (Regional): AT BE CH DE ES FR GB IT LI LU NL SE

Abstract (Basic): EP 236557 A

The ventilation insert is made from four extruded sections (3,4,5,6). The air inlet section (3) has openings (8) spaced along its length for air to enter. Similarly the outlet air section (4) is perforated (9) for air to escape. Inlet and outlet sections (3,4) stand vertically when installed. A further extrusion (14) forms a flap or damper, and is hinged onto the outlet section (4). The remaining extrusions (5,6) form the upper and lower sides of the ventilation insert.

The inside of the insert is lined with sound absorbing material (17), as is the flap (15). The air path (18a, 18d) through the insert forms a convoluted duct in the sound absorbing material. The insert can also contain a motor driven fan.

ADVANTAGE - Simple to assembly and dismantel, extruded parts slide or clip together.

Dwg.2/26

Abstract (Equivalent): DE 3632349 C

The regulator (44) for an ac motor driven blower (45) embodies two inductively coupled windings (47,48) having a common, axially movable core (46). The primary windings (47) is connected to the ac supply (52). The length of the core (46) is such that it is always totally inside the secondary winding (48) but can move in and out of the primary coil (47). By moving the core the motor speed is varied.

The secondary coil is connected to a half wave rectifier (53) which is in turn connected to the gate electrode of a MOS field effect transistor (56) which controls the current in a full wave rectifier

(57) in the blower motor circuit. The regulator core (46) has a preferred dia. of 15% less than the inner dia. of the coils (47,48) and has coils 18mm in length with an outside dia. of 8.5 mm and a bore 3.5 mm. The coil resistance is pref. 1200 ohms. A reversing switch can be incorporated in the circuit.

USE/ADVANTAGE - Speed controlled blower for room ventilation.
Eliminates wear in regulator by removing sliding resistance contacts.
(4pp)1

Abstract (Equivalent): EP 236557 B

A room ventilator having an elongate parallelepipedic casing (2) combined from a number of longitudinal extruded sections (3-6) and two closure plates (7a,7b), each section (3-6) being made at choice from light metal or plastics, an outer substantially vertical section (3) being formed with an air aperture or air apertures (8) disposed at choice at one or more places along its length while an also upright inner section (4) opposite the penultimately mentioned section (3) is formed with air apertures (9) distributed uniformly over its whole length and adapted to be closed or opened by another and adjustable extruded section (14) associated with the last-mentioned apertures (9) and disposed in the casing (2), the outer section (3) and inner section (4) being secured to one another by top and bottom substantially horizontal extruded sections (5,6), the extruded section which is adjustable in the casing (2) being in the form of a flap (14) suspended for pivoting around on eof its longitudinal edges, characterised in that a hook section member (14a) devised along the longitudinal edge around which the edge flap (14) is pivotable is effective as the suspension of the flap (14) and engages over (14b,4i) a hook section member (4h) on the inner extruded section (4), the latter hook section member (4h) being oppositely directed to the first-mentioned hook section member (14a), and an arm (5c) engages supportingly and securingly over the hooked section member (14a) of the flap (14) and is disposed on the top extruded section (5) supporting or retaining the inner extruded section (4). (46pp)

Title Terms: AIR; DUCT; INSERT; DOOR; WINDOW; MADE; FOUR; EXTRUDE; SECTION; LINING; SOUND; ABSORB; MATERIAL

Derwent Class: Q56; Q74; X27

International Patent Class (Main): F24F-013/18

International Patent Class (Additional): F04D-027/00; F24F-007/01;
F24F-007/013; F24F-011/04; F24F-013/072; F24F-013/08; F24F-013/14;
H02P-005/18; H02P-007/00